

Personal Information

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Homepage ohosseini.github.io

Education

- 2015–Present **Ph.D. candidate**, *Heidelberg University*, Heidelberg, Germany.
Scene Understanding
- 2011–2014 **Masters of Science**, *RWTH-Aachen University*, Aachen, Germany.
Media Informatics
Thesis Title – “Improving depth based people detection for mobile robotics”
- 2005–2009 **Bachelor of Science** *Azad University - South Tehran Branch*, Tehran, Iran.
Software Engineering
Thesis Title – “Face recognition using appearance based methods”

Research Interests

Computer Vision, Machine Learning, Deep Learning, Scene Understanding

Publications

- Arxiv 2018 **Deep Object Co-Segmentation**
[Omid Hosseini Jafari](#)^{*}, Weihao Li^{*}, Carsten Rother
(* equal contribution)
- Arxiv 2018 **iPose: Instance-Aware 6D Pose Estimation of Partly Occluded Objects**
[Omid Hosseini Jafari](#)^{*}, S.K. Mustikovela^{*}, K. Pertsch, E. Brachmann, C. Rother
(* equal contribution)
- ICCV 2017 **Bounding Boxes, Segmentations and Object Coordinates: How Important is Recognition for 3D Scene Flow Estimation in Autonomous Driving Scenarios?**
[Omid Hosseini Jafari](#)^{*}, A. Behl^{*}, S. K. Mustikovela^{*}, H. Abu Alhaija, C. Rother, A. Geiger
(* equal contribution)
International Conference on Computer Vision (ICCV), Oct. 2017
- VMV 2017 **Semantic-Aware Image Smoothing**
Weihao Li, [Omid Hosseini Jafari](#), Carsten Rother
International Symposium on Vision, Modeling and Visualization (VMV), Sep. 2017
- ICRA 2017 **Analyzing Modular CNN Architectures for Joint Depth Prediction and Semantic Segmentation**
[Omid Hosseini Jafari](#), Oliver Groth, Alexander Kirillov, Michael Y. Yang, Carsten Rother
IEEE International Conference on Robotics and Automation (ICRA), June 2017
- ICRA 2016 **Real-Time RGB-D based Template Matching Pedestrian Detection**
[Omid Hosseini Jafari](#), Michael Y. Yang
IEEE International Conference on Robotics and Automation (ICRA), June 2016

ICRA 2014 **Real-Time RGB-D based People Detection and Tracking for Mobile Robots and Head-Worn Cameras**
Omid Hosseini Jafari, Dennis Mitzel, Bastian Laibe
IEEE International Conference on Robotics and Automation (ICRA), June 2014

Skills

Programming Languages C/C++, Python, C#, Basic(Commodore64, GWBasic, QBasic, Visual Basic), Pascal, Java
Tools Pytorch, Tensorflow, CAFFE, MATALB, CodeVision, AVR, PSpice
Operating Systems Linux/Unix, Windows, MS-DOS
Graphics Design 3D Studio, 3DS max, blender, ZBrush, Maya

Research Experiences

2016 - 2018 **Research Supervision and Teaching Preparation**, TU Dresden and Heidelberg University
Master thesis supervision
Computer Vision Lecture

July 2016 **ICVSS 2016 Summer School**

June 2013 **CVPR 2013 Demo**
Mentors: Dr. Dennis Mitzel, Prof. Bastian Leibe
Online People Detector and Tracker

Apr. 2013 - Aug. 2013 **Lab Project**, Fraunhofer IAIS, Bonn, Germany
Mentor: Dr. Rolf Bardeli
Video processing and augmented reality.

Oct. 2012 - Apr. 2013 **Lab Project**, Human Language Technology and Pattern Recognition Group
Mentor: Prof. Hermann Ney
Automatic Speech Recognition

Mar. 2012 - Oct. 2014 **Student Research Asistant**, Computer Vision Lab at RWTH Aachen University, Germany
Advisor: Prof. Bastian Leibe
Multiple pedestrian detection and tracking.

2006 - 2009 **ACM ICPC**
as Participant and Mentor

2006 - 2009 **Teaching Assistant**, Azad University, Tehran, Iran
Fundamentals of Programming (C++)
Data Structure
introduction to algorithms
Logical Circuits

References

Ph.D. Advisor Dr. Prof. **Carsten Rother**, *Visual Learning Lab*, Heidelberg University, Germany.
✉ carsten.rother@iwr.uni-heidelberg.de

Research Mentor Prof. Dr. **Andreas Geiger**, Max Plunk Institute and University of Tübingen, Germany.
✉ andreas.geiger@tue.mpg.de

M.Sc. Advisor Prof. Dr. **Bastian Leibe**, *Visual Computing Institute*, RWTH Aachen University, Germany.
✉ leibe@vision.rwth-aachen.de

Hobbies

Playing musical instruments (Piano, Guitar, Tanbur), Cycling, Badminton, Tennis, Hiking, Paragliding